NESQLUG NEWS
The Journal of Record of
New England Sinclair QL User Group
Vol I, No 6
"A Beacon to Guide the Wandering Sojourner Home from the Abyss of Confusion"

EDITOR'S NOTES

As we conclude the first full year of operation our membership has grown to nearly 40 and includes trans-Atlantic members. We are also now a sub-Group of Quanta, the first in North America.

Already we have learned that QUANTA members have contacted us to see if they can join us on visits to this continent.

That's the good news. The bad is that this appears to be the first year that there has not been a Sinclair fest on the continent. And this is sad. because as interest declines, the applications for the QL have increased - hard disk drives. 68020 chip upgrades and controller boards are coming on stream. The computer just won't roll over and die, like an MS-DOS machine should!

REMINDER: Your address label reminds you that membership dues for the coming year are due. Send them to Sherm Waterman, below. Checks payable to NESQLUG.

Finally, those of you who may have been too excited about the "International Recognition for EMSoft" article last issue are reminded that the date for accepting was given as the first Monday in April, which this year was the first.

The NESQLUG NEWS is the Journal of the New England Sinclair QL User Group. It is published bi-monthly.

Annual membership is $10.00 (students $5.00) in North America. The rest of the world - $15.00 air mail.

We meet monthly on the first Saturday of odd-numbered months and the first Sunday of even numbered months. If that's a holiday weekend, we meet the following weekend.

NEXT MEETINGS

NESQLUG meets from 11:00am to 4:00pm, Saturday, May 4, at the home of Al & Dorothy Boehm, 33 Selfridge Road, Bedford, MA. Call (617) 275-1097 for directions. Come 9:00 to 10:00 for coffee and set up.

In June, it meets from 1:00pm to 4:00pm, Sunday, June 9, at Al Boehm's house.

Note: the July meeting will be Saturday, the 13th, because of the 4th of July holiday weekend.

****

Our exchange policy is simple: we-send-you-ours-if-you-send-us-yours (WSYOIYSUY) and you have something to say about the QL.

Please forward exchange issues to Frederick Romer, 31 Fowler St., Jamestown, RI 02835.

Unless copywritten by the author, articles/listings are in the public domain. Attribution is requested.

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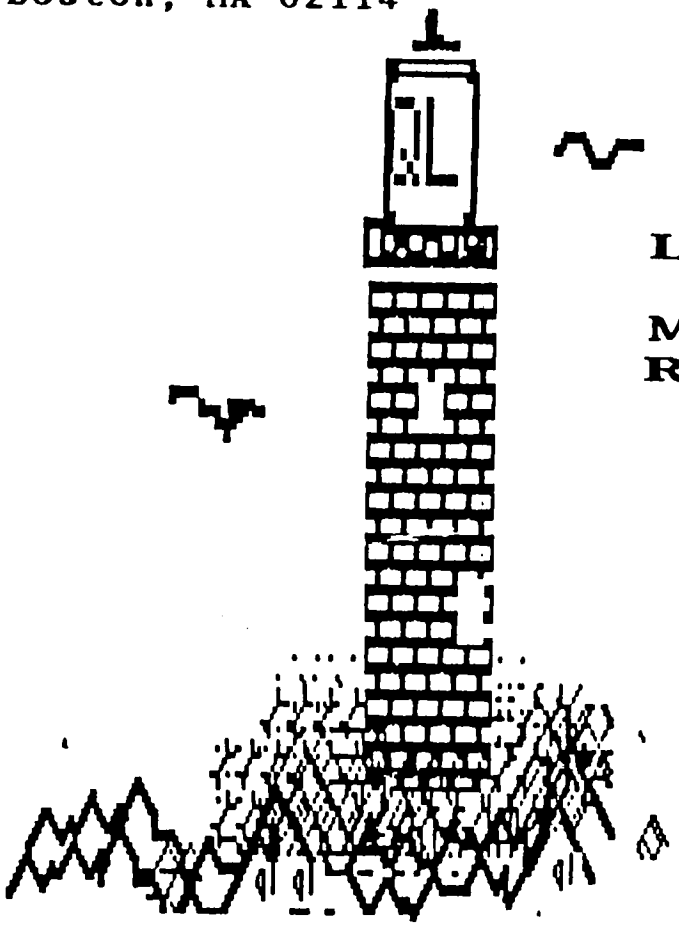

FIRST CLASS MAIL

LAST ISSUE

MEMBERSHIP
RE-NEWAL TIME!

To: CATUG NITE-TIMES NEWS
℅ Bob Swoger, Editor
613 Parkside Cir.
Streamwood, IL 60107

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ANNOUNCEMENT!

MEMBERSHIP RENEWAL TIME

Your membership expires with this issue. Please renew now so you won't miss out.

Regular membership in North America is $10.00 per year (which runs from July to June.

Students pay $5.00 and overseas (AIRMAIL) is $15.00.

Send check payable to NESQLUG to: Sherm Waterman, 40 Eileen Street, Yarmouth Port, MA 02675.

Membership entitles you to all the benefits of belonging to NESQLUG, including receiving the bi-monthly newsletter and gaining access to the NESQLUG LIBrary.

[Volume I of NESQLUG News is available for $6.00.]

MEETING MINUTES

by Mike Jonas

The New England QL Sinclair Group met at the home of Al and Dorothy Boehm on March 2, 1991.

Al Boehm demonstrated a world map graphics database from the National Center for Atmospheric Research (NCAR) adapted for the QL. The program uses run length encoded data to draw a map of the world or any specified range of latitude or longitude. The data permits resolution to 10 nautical miles.

(Cont. page 3)

FROM OUT OF THE ASHES RISES T/SNUG

by a Special Correspondent

FLASH! We have just learned that Don Lambert from Indiana and Bob Swoger from Chicago have taken the bit in the teeth and begun publishing what SNUG hasn't.

We have seen the first issue of, (sit back now!) ZXir QLive Alive, an expected quarterly, supporting all of Clive Sinclair's computers, with news and programs.

It is very smart looking and does not appear to compete with UPDATE.

Only Don and Bob have signed on so far and there are many jobs still to fill, but it has a BBS, courtesy of MOTOROLA, where Bob works.

To gain access dial (708) 576-7072. At the > prompt, type MOTOROLA, then GUEST.

The commands are simple: DIR, TYPE, MAIL, UPLOAD filename.type, and DOWNLOAD filename.type.

To date paid membership is zero. Dues are $12.00 for individuals, $15.00 for groups.

Submissions and membership to:

DON LAMBERT
ZXir QLive Alive Newsletter
1301 Kiblinger Place
AUBURN, IN 46706

Ph (219) 925-1372

or UPLOAD to the BBS (see above).

DIRECTIONS FROM THE DIRECTOR

by Al Boehm

What's your problem? I mean your latest QL enigma. We all run into them - your program crashes, you wonder "If I only had a program to do so and so", or your printer won't print, etc.

Probably, someone else has run into

(Cont. page 3)

DIRECTIONS **Cont from p. 2**

the same problem and found a solution. That's what NESQLUG is all about. Within the group there is a lot of experience. When your QL has you stumped, call one of your fellow members. If they don't know the answer, they may know someone who does.

The June special meeting will be on music on the QL. We will review some of the hardware and programs that play music. Also we hope to design some programs that meet some of our special music needs.

The meeting will be on Sunday, June 9th at my (Al Boehm) house from 1 to 5 in the afternoon.

MEETING MINUTES **Cont from p. 2**

Concurrently, Al demonstrated the use of G_LOAD and G_SAVE, extensions to rapidly swap graphic images already loaded in memory.

Will Horton demonstrated CAT, a new extension he developed to provide a directory across the screen, rather than vertically as with DIR.

As with DIR, CAT requires a drive as a parameter a drive, but subsequently it can be used without a drive reference to access the last referenced device. If CAT flp1_ is called, a subsequent CAT reads the directory on flp1_. Further, CAT 2 will read a directory on flp2_, unless a different kind of device (e.g. ram) has been called immediately prior.

Will also demonstrated a KEYPIP extension (KEYTONE ?) to generate a distinct tone for each key pressed, with a different octave when a capital is pressed. Possibly useful for blind touch typists!

Sherm Waterman announced that the treasury had $197.23 in the account and that three new members had joined in the previous two months.

As memberships are up for renewal in July, Peter Hale proposed a rate of $5.00 for students and $15.00 for overseas members to cover the cost of airmail. All dues should be sent to Sherm (See announcement on page 2. Ed)

Copies of the NESQLUG library disks must be ordered from Ed Kingsly. If ordered by mail, a copying and shipping charge of $1.00/per disk is required if you supply a disk or $1.50/disk without.

An advertising policy was set as $6.00 per page or part thereof, except that 1/4 page will be free to vendors supplying their own copy.

Chris Montgomery, a visitor and student from MIT, described a Data Acquisition and Control Board he is developing for laboratory use at MIT (see article. Ed).

Mike Jonas showed off his fabulous, marvelous, wonderful SPEED and TUNE keywords to generate musical notes with alpha-numeric characters.

An allocation of up to $50.00 was approved for the purchase of IFD library software that was not currently in hand.

The April Special Interest meeting was also held at Al Boehm's. Will Horton gave an introduction to Assembly Language Programming. He was very patient in repeating in numerous ways the essentials. Only seven persons attended, including Judy Ceprano, Will's lovely fiance and her much appreciated cupcakes, but the group was very attentive, and each agreed that he made major conceptual leaps in understanding how and why assembly code is written.

Respectfully submitted, Mike Jonas,
Secretary pro tem

QL GENEALOGIST
Reviewed by Gary Norton

QL GENEALOGIST by Chris Boutal is a program that allows the user to prepare a family history.

It is one of the best looking and operating programs that I have seen for the QL or any other computer. Although more than 100K bytes long, it loads in only a few seconds.

In the Configure section there are several choices for paper and ink colors to allow for individual tastes. Also, several variables and printer settings can be altered to customize the program to the user's needs.

The program is multi-menu driven. When a selection is made on the initial menu, a second menu appears beside the first, and so on, until all selections are chosen.

A menu feature that I especially like is the option either to use cursor keys and ENTERing or to simply enter the first (or in some instances the capitalized) letter.

Several types of reports can be generated, output either to the screen or to a printer for a hard-copy record and there is an Export option so files be used in Archive.

An added feature is a demonstration file of the British Royal Family from William I, born in 1027, to the present Queen Elizabeth II.

In comparing the ease of use, the features offered, and the reports provided, I do not think there is another Genealogy program for any computer that can out-perform the **QL GENEALOGIST.**

I have compared it with Andy Carmichael's **RELATION** program, at least as much as I have been able to get that one to work, as well as a genealogy program for the IBM computers. **QL GENEALOGIST** is a hands down winner against the Archive based **RELATION,** which is very slow, limited in output and much more confusing to use.

The IBM program, **FAMILY TREE, ETC.,** from Pinecone Software, is as good as QL Genealogist in report output, but with fewer report options. Neither does it have the type of Research section available in the QL program. It also does not have the Spelling option, to allow for variations in spellings of surnames. On the other hand, the IBM program, when printing out the family tree report, includes full date for birth, marriage and death, as well as the location of each.

THE MANUAL

As previously mentioned, **QL GENEALOGIST** is very user friendly. The manual has a tutorial. If you use it and follow what is happening, by the time you complete the tutorial, you are ready to begin.

The 35 page manual is well structured, includes an index for quick referencing, and with only a few minor exceptions, is very concise in its presentation.

The best part of the program is its walk through of each phase of operation with its multi-menu format.

Another excellent feature is the ability to design report outputs. For example, the user can have the report ordered alphabetically or chronologically. There is even a cross-reference feature to see the relationship between any two people listed in the database and who their closest common ancestors are.

While no program is 100% perfect, this one comes close. The only faults - and I'm nitpicking here - are the following:

1. There is no gender recognition in the program as is the case with the **RELATION** program. An example of this is the cross-reference mode. If a person and his/her aunt are selected, the response will be that the aunt (Jane Smith) is the Uncle/Aunt of the person being cross-referenced. This is a minor feature, but one that would help clarity.

(Cont page 11)

NESQLIBrary Update
by Ed Kingsley

In the last newsletter, I made a plea for the return of all programs taken by members for keypunching, whether or not they were done.

I then followed that up with individual postcards (created by Peter) as an additional reminder.

The time has come. I am closing out Disk #2, of the NESQLIBrary at the May meeting. If you have a program (or a _doc file) you would like to contribute, please get it to me by then (May 4th). Last call. This is it. Now or never. Please don't say I didn't ask.

Disk #1, is being reviewed for the last time and THE FINAL VERSION will be available at the May meeting.

With the generous help of members, I have been able to look through many of the past issues of QL World magazine and select programs for inclusion in the Library. Several issues, however, have escaped me and I believe that there may be information in them critical to debugging or enhancing some of the programs from earlier issues.

If anyone has, and can loan me, or provide information from any of the following, I would be most grateful.

1986 Feb, April, August, Sept
1985 Jan, Feb, August, Nov
1984 Any and all

I would like to express my personal thanks to Will Horton for his enthusiastic and enlightening seminar on Assembly Language Programming, on April 7th. His patience in explaining the obvious for the nth time succeeded in lighting a dim, but hopeful, glimmer of understanding at the end of MY dark tunnel. Thanks, Will, I'm beholdin' to you. Thanks, too, to Al and Dorothy Boehm for their never ending hospitality.

P.P.S. I am collecting a "library" of sounds, noises, tunes, etc., that can be generated by the QL's BEEP command or other keyword extension.

If you have any to share, lease mai on media, call me on the phione or bring to the meeting.

The idea is to develop a demonstration program to access all of them from a master menu.

ED note: This sounds like a very useful project, if not for budding programmers within NESQLUG, most useful to others who may get our disk.

MORE ON INTER GROUP FREEWARE EXCHANGE
by Peter Hale

Franz Herrmann of the Intergroup Freeware Exchange writes to correct some typos in the March issue.

It's Intergroup, and we inadvertently spelled his name incorrectly.

Franz also writes that the Exchange has grown to include the following (in addition to NESQLUG).

CGH Services	UK
Circulo Usarios QL y Z88	Spain
Club-Ware	Italy
National Dutch QL-Users Club (sin-QL-air)	Netherlands
Norwegian All Sinclair Assn (NASA)	
Scottish QL Users Group	UK
Sinclair QL Users Club e.V.	Germany
Svenska QL Gruppen	Sweden
QITALY	Italy
QUBBESoft P/D	UK

Franz notes that Club-Ware and the QITALY group have recently unified.

He also reports that with growth of participation he expects the library will double within twelve months.

Contact Franz Herrmann at:

Sinclair QL User Club e.V.
Foreign Contact Section
Talstrasse 21
D-W5460 Ockenfels
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REMOTE CONTROL BY THE QL

by Peter Hale

[At the March meeting Chris Montgomery briefly discussed a Data Aquisition and Control Board being developed for MIT to be used by the QL. The following is from an interview with Chis. Ed]

Previous efforts to respond to and control the outside world with a QL have not been successful. Prairie Digital developed an A/D I/O (Analog /Digital Input/Output) board that was not particularly facile and had quality control problems.

Chris had used the board and found it wanting. He therefore began constructing a board that would do what he had expected the Prairie Digital board to do. In its initial version it will be used for an introductory course in Electrical Engineering to run and supervise experiments, for robotics control and as a digital oscilliscope.

Each component has been constructed and tested. What remains is to integrate the components in a unit and design the printed circuits.

As envisioned the board will have two components connected by a ribbon cable.

Attached to the QL's Data Bus will be a fully buffered memory decoder with a cable. It will have a thruport for a disk controller.

At the other end of the cable will be the Data Aquisition and Control Device.

The device will have four (4) channels. Although only one will be active at a time, it will have multiplexing - artificial multi-tasking, as it were.

The channels will be capable of up to 20,000 samples per second! This figure would be reduced by the number of other demands placed on the unit.

(Cont page 11)

ZIP CODE PRINTER AUTOMATION

By Peter Hale

The April, 1991, issue of The DATA BUS from the Dayton Microcomputer Association had a BASIC listing to generate the Bar code at the bottom of the envelope. This code is called Post-Net code and is used by Post Office optical scanners to automatically direct mail.

The author, Gary Ganger, heads the Timex SIG at the DMA, but the listing was in GW-BASIC. Below, it is converted to QL SuperBASIC.

Naturally, this is useful only if you can print to an envelope or a label to stick on an envelope.

```
10 REMark PRINT POST-NET ZIPS
20 REMark BY GARY M. GANGER
30 REMark MODIFIED FOR THE QL BY
40 REMark PETER HALE, NESQLUG
50 REMark THIS PROGRAM CONVERTS
60 REMark A ZIP OR ZIP+4 CODE TO
70 REMark AUTOMATED ZIP/BARCODE
80 :
100 Post_net$="¦" : Y=0
110 INPUT "Enter the zipcode: ";Zip$
120 FOR n=1 TO LEN(Zip$)
130  IF Zip$(n)='-' : NEXT n
140  cod=Zip$(n) : post_net_code
150 END FOR n
160 X$=100-Y : cod=X$(LEN(X$))
170 post_net_code
180 Post_net$=Post_net$&"¦"
190 PRINT Post_net$
200 :
210 DEFine PROCedure post_net_code
220  SELect ON cod
230   =1 : Post_net$=Post_net$&"...¦¦"
240   =2 : Post_net$=Post_net$&"..¦.¦"
250   =3 : Post_net$=Post_net$&"..¦¦."
260   =4 : Post_net$=Post_net$&".¦..¦"
270   =5 : Post_net$=Post_net$&".¦.¦."
280   =6 : Post_net$=Post_net$&".¦¦.."
290   =7 : Post_net$=Post_net$&"¦...¦"
300   =8 : Post_net$=Post_net$&"¦..¦."
310   =9 : Post_net$=Post_net$&"¦.¦.."
320   =0 : Post_net$=Post_net$&"¦¦..."
330  END SELect
340  Y=Y+cod
350 END DEFine post_net_code
```

Note: The ¦ is SHIFT + the \ key.

NETWORKING with QL.

The following is a translation by Louis Laferriere of an article published in QL_DOC Issue # 9 .

The QL Network does work !!!!
I saw it in OPERATION !!!

You must be realistic, if your QL gives up the ghost, you are in deep trouble, unless it is a minor problem , you can forget about having your QL repaired , because it is just about impossible to get replacement parts in this country.
Therefore, the only thing to do is to get a back-up QL. In the meantime you can hook-up your two QL's into a local network to really surprise your friends.
Before , this big splash , you must have TOOLKIT II in each of the machines on the network. You can have up to 64 QL's on the same circuit.

To delve a bit more on the subject of networking , the following is an adaptation of an article by Mr. J. L. Dianoux (QLCF) e.g. from FRANCE, from QL_DOC.

" The QL , like all other complicated beings , was born prematurely , capable of accomplishing great things , but it cannot survive in the hostile world by itself.

Communication is the greatest gift for both man and computer. Therefore the only thing missing for the new born computer " QL " to be able to communicate with his brothers and sisters is " FSERVE ".

This need can be satisfied by installing the irreplaceable TOOLKIT II by TONY TEBBY . You will then discover that the QL can and will communicate with others at 9600 bauds.

All you need is a connecting cable " with RCA plugs " to interconnect the two " NET " . If you have only two machines each can be called net 1 by entering : NET 1 . However you don't even have to do this , because each will be NET 1 to the other. If you have more than two then it is imperative to number each machine up to a maximum of 64.

Then you should enter on one or both machines " FSERVE " this is the command to " FILE SERVER " , this magical command will allow the secomd machine to have access to all the peripherals of the first machine.

You neve then given the the authorisation to come and have access to your pocketbook, your microdrives ,your diskdrives and also to print on your screen all kinds of messages as well as on your serial or parallel PORT and on your microdrive cartridges , your disks as well as RAMDISKS but it also can delete your valuable files. But the remote machine cannot format your microdrives or other devices.

EXEMPLE : two QL s are tied together , QL 1 has a printer and QL 2 is equipped with 2 diskdrives , a memory extension board as well as a MODEM to connect to outside sources of INFORMATION . Each will ENTER " FSERVE " . The first machine which had been having problems with his microdrives ENTER s as well " NFS_USE mdv, n1_flp1_, n1_flp2_ " . This means that in the future when it will ENTER or that a program will be looking for " mdv1_ " the machine will interpret this to mean " flp1_ " of the other machine. The same applies also for " mdv2_ ". Therefore QL 1 will operating as if the diskdrives of QL 2 are his diskdrives will be able to get DIRectory etc. and the QL 2 will also have access to the printer of QL 1 with the command " COPY flp1_texte_doc to n1_ser1 ".

You can even have fun by displaying on QL-1 the clock from

QL-2 , and at the same time QL-2 will display the clock from QL-1 :

```
open #3,n1_con:clock #3
```

and on QL-2 :

```
open #3,n1_con:clock #3
```

And that is it !!! If there is a clash , what happens ? The communication is suspended , the software for NETWORK keeps on trying and then everything stops with the message " network aborted "...and then sometimes its starts all by itself !!!

And now for a few comments .

You can load and run on your own machine some programs placed on the peripherals of the other machine: e.g. LRUN N1_FLP1_BOOT . As well EXEC_W N1_FLP1_QUILL works quite well.

You can command transfer of a peripheral of the second machine to another peripheral :
e.g. COPY N1_FLP1_FILE_LIS to N1_SER1

A machine which forms part of a network of many QL's allows the circuit to function even though it is not on.

So that QUILL and other PSIONS programs can identify the peripherals on the network you must proceed as follows :

to perform certain functions with the network, such as LOAD N1_FLP1_document_doc (" not found "), NFS_USE must first be entered with a different instruction of MDV on N1_FLP1_ . e.g. NFS_USE mdv,n1_flp1_,n1_flp2_ . You will then ENTER F3>LOAD>mdv1_document_doc , and QUILL will be fooled and will get the document on N1_FLP1_ .

to print directly on N1_SER1 for example, you must reconfigured QUILL or other programs , using for the peripheral neither the PAR , nor the SER , but the " NON STANDARD PRINTER DRIVER ". You must then ENTER " N1_SER1 " instead of PAR . To print , the command will be " F3>print>whole>to printer".

The majority of other programs " THE EDITOR , FLASHBACK ,PAGE DESIGNER ..." identify directly the commands of the network.

FSERVE usually has a higher priority , and would normally slow down your activities. You can still get the better by giving it a lower priority say : 1 .

All in all , the network arrangement works quite well , although not as fast as ETHERNET (10 words/sec.) but it should be good enough for every day usage.

WRITING AN ARTICLE
by Peter Hale

Everyone likes to read newsletters and magazines about the QL. But before a newsletter/magazine exists there must be 1) articles and 2) an editor. (That's me!)

A recent survey revealed that: editing a Sinclair Newsletter was the leading cause of ulcers, baldness, and short tempers in nine out of ten respondents.

First, editors take their work seriously - pride of workmanship, footnote to history, honor - all the sorts of things that drive otherwise sensible people to volunteer.

Second, articles rarely are forthcoming without a certain amount of arm-twisting. [NESQLUG is an exception - without voluntary contributions, this newsletter would only list the time/date of the next meeting.]

Third, under the best of circumstances whipping an article into shape can be tedious if a contributor doesn't take a minute to format an article or check spelling. It's even tougher when an article comes on just hard-copy or just media.

NESQLUG NEWS is produced from a text87 file. It is normally set to print out in a double column.

There are reasonable exceptions as when a wide table is part of an article, but for the most part it means that you can expect that an article's margins will be changed.

Thus the editor likes submissions on either a Quill_doc or text87_T87 file. He can tolerate straight ASCII files. He also likes (read needs) a hard-copy printout so he can see how <u>you</u> think the article should look.

It is also a lot easier to read through hard-copy straight from an envelope and make proof notes than to wait until powering up the computer to see what's there.

The editor has a few preconceptions about how punctuation is used. He thinks that a period at the end of a sentence should be followed by <u>two</u> spaces and that there is no need for apostrophe's in plural's.

If you <u>must</u> make a submission that is not easily transferable from disk/micro-cartridge, PLEASE pay attention to what follows:

1. The newsletter is photoreduced. We shrink the original to 78% so that two pages fit side by side on one sheet of 8.5" x 11".

2. However, half of an 8.5" x 11" sheet is not in the same proportion as the whole. It is 5.5" x 8.5". With 78% reduction, the 11" fits fine, but the 8.5" is too wide.

3. THEREFORE PLEASE, if you can only submit hard-copy, format it right-justified, so that either:

A. The text body is 3" x 10" per page (for pasting together as two columns and leaving room for margins and footers), or

B. The text body is 6.4" x 10".

Also, please print out in NLQ or LQ. Photocopiers can do wonders in improving contrast, but there are limitations if the hard copy is in draft mode with an old ribbon.

(This also applies to submissions to any of the newsletters I know about, including UPDATE COMPUTER SYSTEMS, which reproduces 1:1.)

There! I've got it off my chest.

FROM CATS Dec 1990
COMPUTER STORY by Tim Swenson

We had a computer that kept crashing. Every time service was called, it worked fine. It turned out that one of the users would come in, sit at the console and put his papers and stuff on the top covering the cooling vents. When it crashed, he picked up his stuff and left, removing the evidence. Service didn't figure it out until they finaly decided to watch him work to see why it crashed.

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On the input side, there will be eight (8) infrared sensors with independently adjustable sensitivity and eight to sixteen (8 to 16) buffered digital input connectors.

The output side will have eight to sixteen buffered digital connectors. Eight will have 150 to 200 watt Mosfets (powered transistors) to switch larger currents.

There will be an independent onboard timer for real time grabbing of data and control of output.

The unit can be permanently installed but will be fully transparent to the QL until activated.

It will include a software toolkit on media that will permit development of applications without need for sophisticated programming skills.

It is anticipated that the board will be available both in kit form and as a fully assembled unit to be manufactured by XIPH (pronounced 'zife') by the end of this year. Present indications are that the kit will retail for under $100.00.

For further information, contact EMSoft, P.O. Box 8763, Boston, MA 02114 U.S.A. (1-617) 889-0830.

FROM CATS Dec 1990
COMPUTER STORY by Tim Swenson

Years ago while working on a large Amdahl 470/6 running DOS and MVS under VM, the system crashed, but returned a system error code nnnn.

On looking up the code in the system manual (not an Amdahl manual) it said:

A SYSTEM ERROR HAS OCCURRED WHICH WAS PREVIOUSLY THOUGHT TO BE IMPOSSIBLE.

2. Another complaint is that if you inadvertently try to load a file and type flp1_ instead of flp2_, instead of letting you escape from that, it knocks you out of the program and you must reload. If you have been updating the database, and haven't saved it at this point, then all that was updated will be lost.

3. Hardcopies of some reports are very paper intensive. In printing out the Pedigree and Tree reports of the Royal Family, there were many pages of wasted paper. [Is this a function of A4 vs. 8 1/2" by 11"? Ed.]

Unfortunately for some, the full-blown QL GENEALOGIST requires disk drives and at least 256K memory. For those with unexpanded QLs, there is a microdrive version to use with only 128K memory. It offers the same multi-menu screen, but is limited in scope. In order to fit into memory, several of the features had to be eliminated.

For example, there is only one type of report, the Family Tree. The Research section was eliminated, as was the Notes section. The Export mode is retained.

However, it is still a very useful and easy-to-use program for anyone with an unexpanded QL who is interested in mapping out a family history.

QL GENEALOGIST is certainly an outstanding program. I cannot begin to give sufficient accolades to Chris for his effort. If one is contemplating the task of preparing their family history, they will be very well served by this program. Until now, no program available for the QL fit the need. Now, thanks to Mr. Boutal, anyone would be hard-pressed to come up with a program for any computer that does a better job than this one.

[QL GENEALOGIST is available in North America FOR $40.95 ppd from EMSoft, P.O. Box 8763, Boston, MA 02114 (1-617) 889-0830.)

NEW ENGLAND SINCLAIR QL USERS GROUP
P.O. Box 8763